

## FEATURES

- 1GSa/s Real-Time
- 2 Mega-point Record Length
- 2mV to 10 V Vertical Scale
- Up to 27 Automatic Measurements
- Go/NoGo Function
- Data Logger
- 100MHz bandwidth

# RS PRO IDS6102AU Oscilloscope, Digital Storage, 2 Channels, 100MHz

RS Stock No.: 123-3539



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

### Product Description

RS PRO IDS6000A-U Series provides complete remote control or data capture over a USB interface. It supports PictBridge which, connected to a compatible printer with a USB cable, facilitates push-button printing. Its MemoryPrime technology allows 2 Mpts of waveform data. Full advantage of this capacity can be taken using Horizontal Page Skip and Set Time functionalities. Auto measurement is enhanced with a built-in Autoset function and Cursor Gating feature.

### General Specifications

<b>Oscilloscope Type</b>	Digital Storage
<b>Bandwidth</b>	100MHz
<b>Sampling Type</b>	Real Time, Equivalent
<b>Sampling Mode</b>	Normal, Peak Detection, Average
<b>Average Time</b>	2, 4, 16, 32, 64, 128, 256
<b>Standard Interfaces</b>	USB
<b>Calibration Available</b>	Yes
<b>Applications</b>	Laboratories, Educational establishments, Product testing and Quality Assurance, Service operation and post-sales support, Product development and debugging

### Input System

<b>Input Coupling</b>	AC, DC, GND
<b>Input impedance</b>	1M $\Omega$ $\pm$ 2% , ~15pf
<b>Maximum Input Voltage</b>	CAT II 300 V (DC +AC peaks)
<b>Input Sensitivity</b>	2 mV/div to 10 V/div

### Vertical System

Maximum Vertical Sensitivity	2mV/div
Minimum Vertical Sensitivity	10V/div
Vertical Resolution	8 bit
DC Measurement Accuracy ( $\leq 200\text{mV/div}$ )	$\pm(3\% \times  \text{Readout}  + 0.1 \text{ div} + 1\text{mV})$
Rise Time	$<3.5\text{ns}$
Channel Voltage Offset Range	2mV/div ~ 50mV/div : 0.4V ; 100mV/div ~ 500mV/div : 4V ; 1V/div ~ 5V/div : 40V ; 10V/div : 300V
Math Operation	+ , , x , FFT, FFTrms, Zoom FFT

### Horizontal System

Real Time Sampling Rate	1GSa/s
Measure Display Mode	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y
Time Base Range	1 ns/div to 50 s/div
Horizontal Scan Rate	50ms/div ~ 50s/div

### X-Y Mode

X-Pole Input / Y-Pole Input	Channel 1 (CH1), Channel 2 (CH2)
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### Measurement System

Auto Measure	Vpp, Vmax, Vmin, Vamp, Voi, Vhi, Vavg, Vrms, Rise Preshoot / Overshoot, Fall Preshoot/Overshoot pp amp avg rms hi lo max min Freq , Period , Rise Time , Fall Time , Positive Width , Negative Width , Duty Cycle
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### Trigger Specifications

<b>Trigger Source</b>	CH1, CH2, Line, EXT
<b>Trigger Modes</b>	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width
<b>Trigger Coupling</b>	AC, DC , LF reject, HF reject. , Noise reject
<b>Trigger Sensitivity</b>	DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 70/100/150MHz: Approx. 1.5div or 15mV

### Control Panel Function

<b>Auto Set</b>	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically
<b>Save/Recall</b>	Up to 15 sets of measurement conditions

### Display System

<b>Display Mode</b>	5.7 inch TFT colour LCD
<b>Resolution</b>	320 horizontal by 234 vertical pixels
<b>Waveform Display Range</b>	8 x 10 div

### Electrical Specifications

<b>Operating Supply Voltage</b>	AC 100V ~ 240V , 48Hz ~ 63Hz , Auto selection
<b>Plug type</b>	Europe, UK
<b>Safety Category Level and Voltage</b>	CAT II 300V

### Mechanical Specifications

<b>Dimensions</b>	140mm x 310mm x 142mm
<b>Length</b>	140mm
<b>Width</b>	310mm
<b>Height</b>	142mm
<b>Weight</b>	2.5kg

## Approvals

<b>Compliance/Certifications</b>	EN61340, CE
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ORDERING INFORMATION	
<b>IDS-6072A-U</b>	70MHz, 2 channel, 1GSa/s & 2Mega Memory DSO
<b>IDS-6102A-U</b>	100MHz, 2 channel, 1GSa/s & 2Mega Memory DSO
<b>IDS-6152A-U</b>	150MHz, 2 channel, 1GSa/s & 2Mega Memory DSO

ACCESSORIES	
User manual x1, Power cord x1	
Probe GTP-070A-4 or equivalent:70MHz(10:1/1:1)Switchable passive probe for IDS-6072A-U(one per channel)	
Probe GTP-100A-4 or equivalent:100MHz(10:1/1:1)Switchable passive probe for IDS-6102A-U(one per channel)	
Probe GTP-150A-2 or equivalent:150MHz(10:1/1:1)Switchable passive probe for IDS-6152A-U(one per channel)	
OPTIONAL ASSESSORIES	
<b>GTL-242</b> USB Cable, USB 2.0 Type A - Type B, 4P	<b>GTL-110</b> Test Lead, BNC-BNC Heads
<b>GSC-006</b> Soft Carrying Case	
FREE DOWNLOAD	
<b>PC Software</b> FreeWave software	<b>Driver</b> USB driver; LabView Driver